

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082970 A1(51) International Patent Classification:
29/04, 33/02, 23/00

C08L 3/12.

(74) Agent: KIM, Joong-hyo; 2nd Fl., Fine Bldg., 636-22,
yeoksam-dong, Kangnam-ku, 135-908 Seoul (KR).

(21) International Application Number: PCT/KR02/02496

(22) International Filing Date:
30 December 2002 (30.12.2002)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0017516 29 March 2002 (29.03.2002) KR(71) Applicant (for all designated States except US): NASUN
HITEC LTD., CO [KR/KR]; 308-1104., Hyundai APT.,
484, Gwangjang-dong, Gwangjin-ku, 143-210 Seoul (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SEO, Jeung-Eui
[KR/KR]; 308-1104., Hyundai Apt., 484, Gwang-
jang-dong, Gwangjin-ku, 143-210 Seoul (KR).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: DISASSEMBLE RESIN AND THE MANUFACTURING METHOD FOR THEREOF

(57) Abstract: This invention is about a method of resin manufacturing and a resin which is decomposed in a short time by several kinds of microorganisms, a decomposable resin under this invention composes with carbohydrate polymer 20~64.5 wt % which has branch structures of amylose or amylopectin; hydrophilic resin 20~40 wt % which was mixed one or more than two of polyvinylalcohol, polyacrylic acid, polyethyleneacrylic acid; lubricant 5~20 wt % and thermoplastic resin 10~30 wt % and metal soap 0.5~5 wt % as stabilizer. Effects of the resin mixed under the above ratio are that the manufacturing method is simple and the cost of manufacturing is down, therefore, the consumer can get the cheaper one, furthermore this resin can be used for ordinary purposes as well as special purposes.

WO 03/082970 A1